

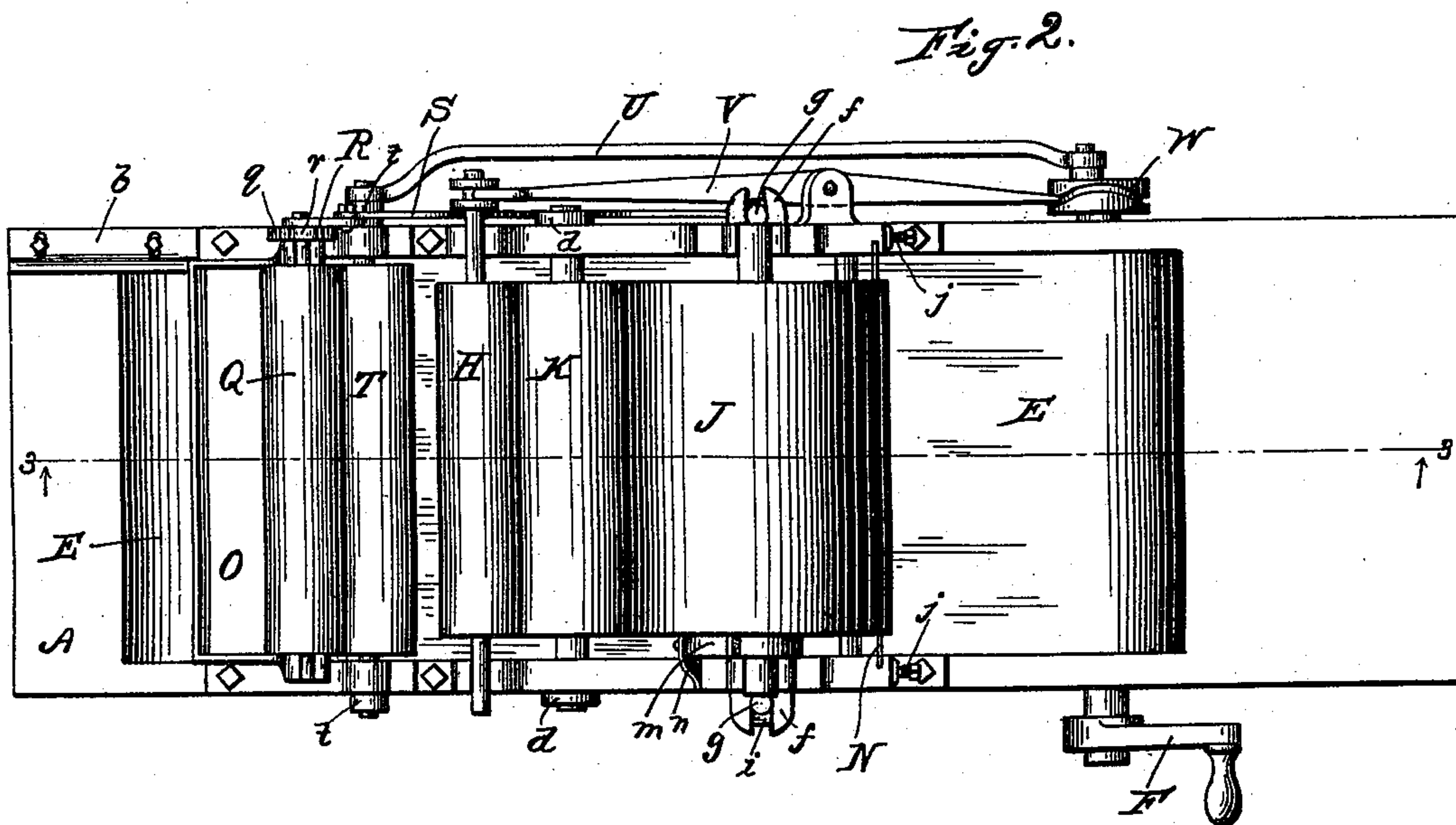
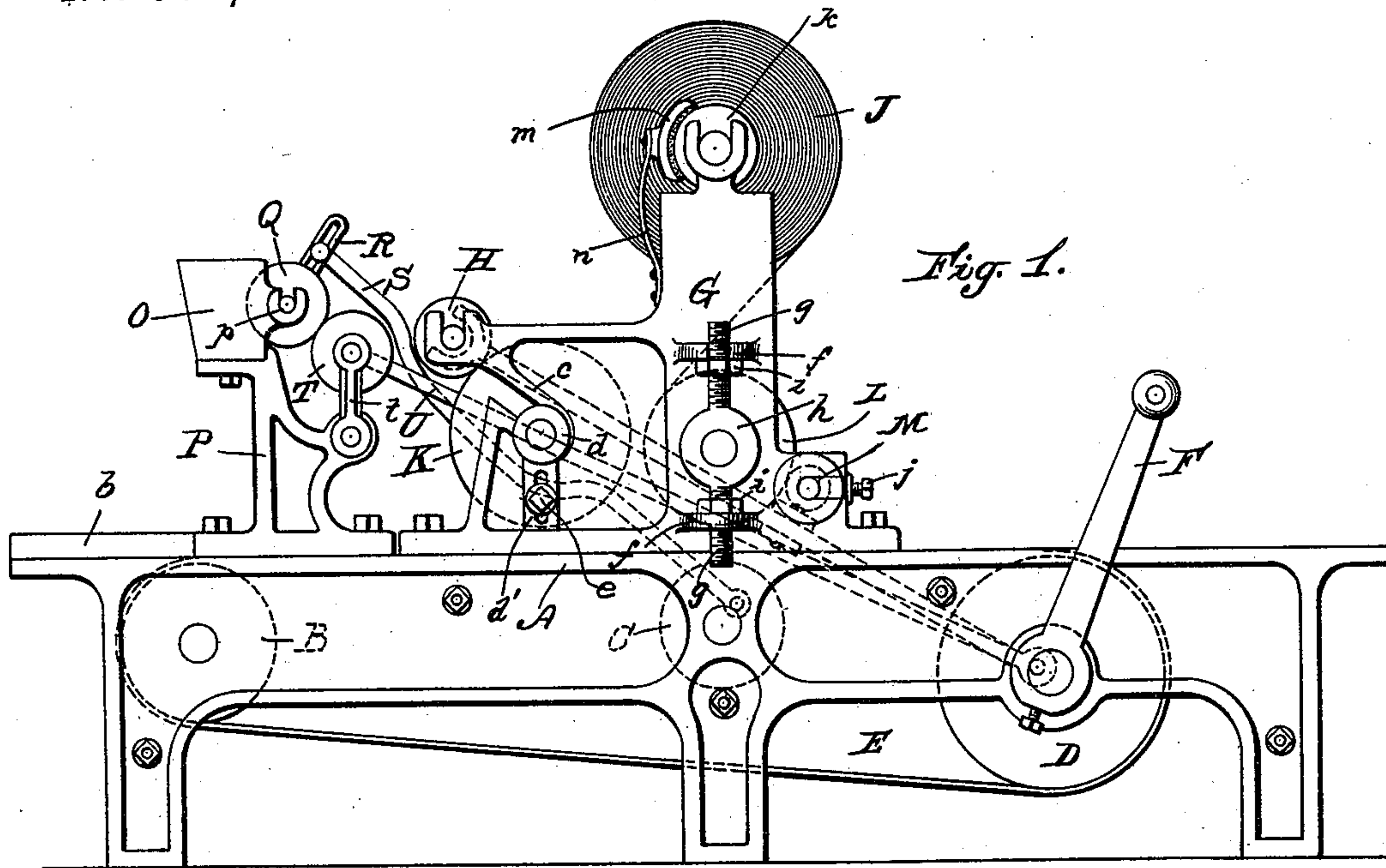
(No Model.)

2 Sheets—Sheet 1.

C. A. CORBITT.
PRINTING PRESS.

No. 507,486.

Patented Oct. 24, 1893.



Witnesses,
John C. Wiles,
N. E. Oliphant

Inventor.
Charles A. Corbitt,
By H. G. Underwood
Attorney.

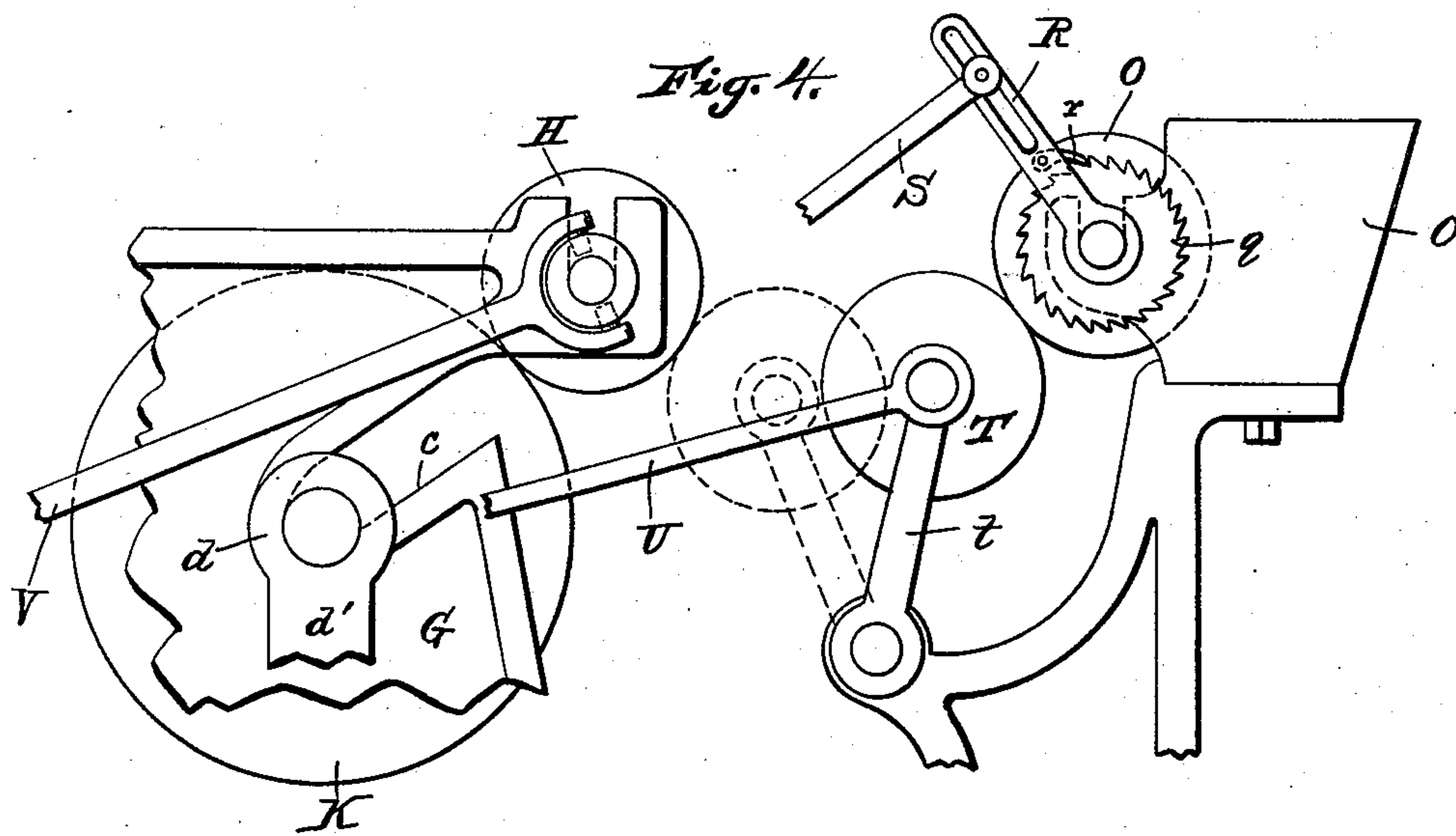
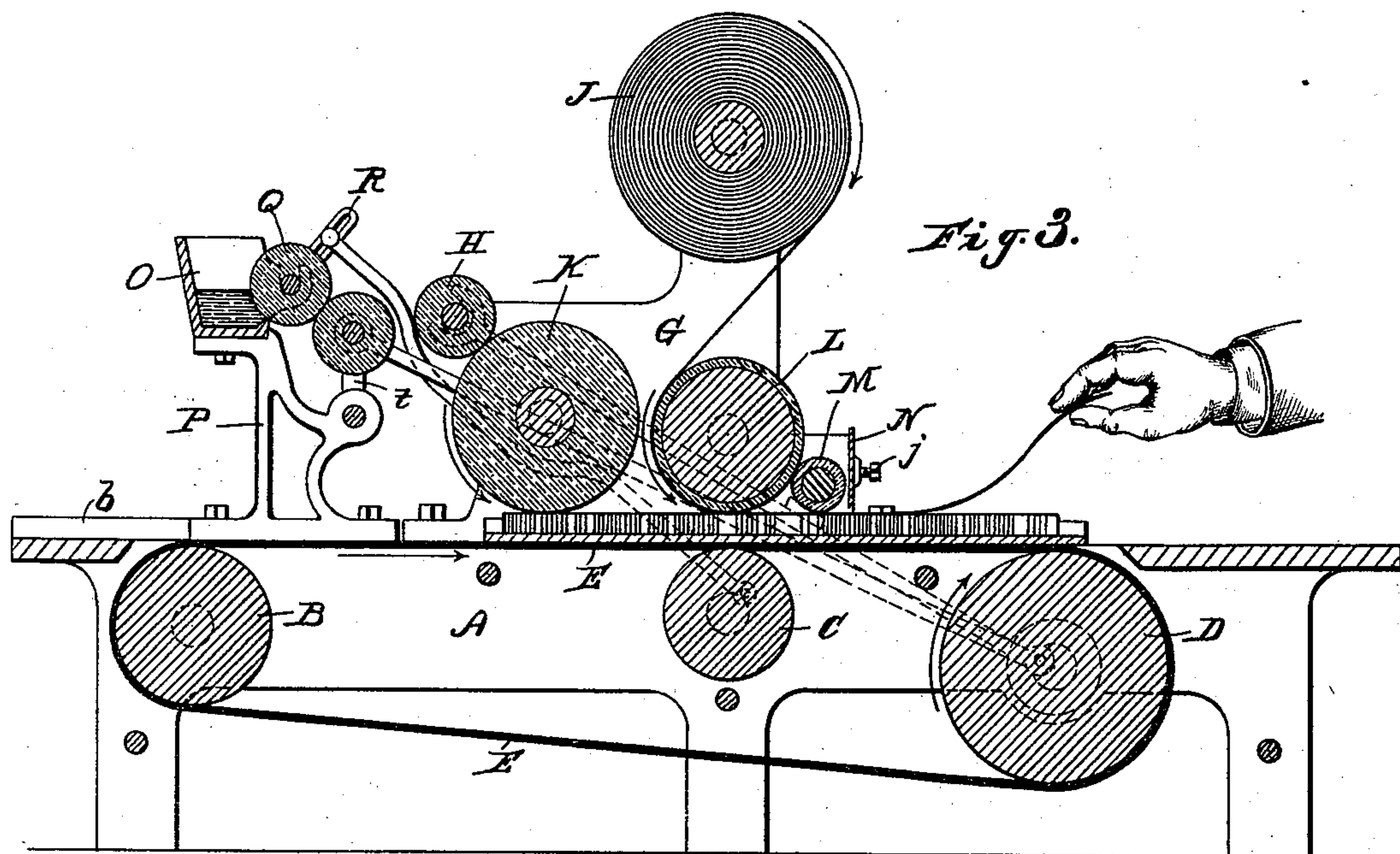
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2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

CHARLES A. CORBITT, OF RACINE, WISCONSIN, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE CORBITT PRESS COMPANY, OF SAME PLACE.

PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 507,486, dated October 24, 1893.

Application filed June 15, 1892. Serial No. 436,769. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. CORBITT, a citizen of the United States, and a resident of Racine, in the county of Racine, and in the State of Wisconsin, have invented certain new and useful Improvements in Printing-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple means for obtaining sharp, clear proofs from galleys, as well as to print small jobs for which the make-ready on an ordinary press consumes too much time, and said invention therefore consists in certain peculiarities of construction and combination of parts to be hereinafter described with reference to the accompanying drawings and subsequently claimed.

In the drawings:—Figure 1 represents an elevation of one side of a printing apparatus constructed according to my invention; Fig. 2, a plan view of the same; Fig. 3, a vertical longitudinal section of the same taken on line 3—3 of the preceding figure, and Fig. 4, a detail elevation of an ink-distributing mechanism that may form part of said apparatus.

Referring by letter to the drawings, A represents a suitable stand open at the top for a certain portion of its length, and journaled in the sides of the stand are rollers B, C, D, or analogous devices for the support of an endless-carrier, E, a journal of the roller D being provided with a crank F as a means for imparting motion to said rollers and endless-carrier, the latter being exposed through the open portion of the stand-top on a level therewith and adjacent to a galley guide rail *b* laterally adjustable on the rear horizontal portion of said stand-top at one side of the same. Rigidly connected to the stand or cast in one piece therewith is a pair of parallel standards G provided with bearings for an ink-distributing roller H, and the spindle or journals of a continuous web or roll J of paper. The standards are also provided with inclined slots or ways *c* for the journals of an inking-roller K adjacent to the distributing roller H, and each slot has a vertical drop, (shown in dotted lines in Fig. 4) at its inner end, as

best illustrated in Fig. 4. The bearings *d* for the inking-roller are shown as having depending vertically slotted extensions *d'* secured to the standards G by set bolts *e* engaging these standards and the slots in said extensions of the bearings, and by this construction and arrangement of parts I provide for a vertical adjustment of said inking-roller, this adjustment being proportionate to the vertical disposition of the inner terminals of the slots *c* in said standards.

The standards C are provided with horizontal guides *f* arranged one above the other to engage vertical screw threaded stems *g* extended in opposite directions from bearings *h* for the journals of an impression-roller L in line with the roller C, previously set forth, and by means of set-nuts *i* on the stems, the bearings may be readily adjusted to lower or raise said roller.

Adjacent to the impression-roller L is a delivery-roller M that has its bearings in longitudinal slots in the standards G, and by means of set-screws *j* the latter roller is run in or out to regulate its tension with relation to said impression-roller and the paper that may be run between the two from the roll J, above specified. A collar *k* is shown as being fast on a journal or one end of the spindle for the roll or web of paper and arranged to bear on this collar is a brake *m* controlled by a flat-spring *n* fast to the adjacent standard, this spring-brake serving as a means for preventing the paper winding off the roll J faster than required.

Adjacent to the delivery roll M, a cutting blade N is held between the standards G, by any suitable means, this blade being preferably removable. As thus far described the parts in their relative arrangement may be sufficient for the attainment of the objects of my invention, but it is preferable to provide for an automatic feed and distribution of ink in connection with the roll J herein specified. To this end I mount an ink-fountain O on brackets P fast to the stand A in rear of the standards G, this fountain being provided with bearings *p* for the journals of a feed-roller Q, and one journal of this feed-roller has a ratchet-wheel *q* fast thereon for en-

gagement with a pawl *r* pivoted to a slotted lever *R* that in turn is pivoted to the adjacent bracket. Adjustably clamped to the lever *R*, by any suitable means, and engaging the slot therein, is one end of a pitman *S*, and the other end of this pitman is wristed to the roller *C* on which the endless-carrier *E* is partially supported. At each revolution of the roller *C* the pitman actuates the lever *R* and thereby causes a partial revolution of the feed-roller *Q* through the medium of the pawl *r* and ratchet-wheel *q* previously specified, the movement of this roller being determined by the adjustment of said pitman with relation to said lever.

Engaging link-bearings *t*, pivotally connected to the brackets *P*, are the journals of another roller *T*, and engaged with one of these journals is another pitman *U* that is wristed to the roller *D* employed as one of the supports for the endless-carrier herein specified. The reciprocation of the pitman *U* rocks the roller *T* back and forth between the feed-roller *Q* and distributing-roller *H*, the former roller being thus brought in frictional contact with each of the others for a predetermined length of time at each revolution of the roller *D*, whereby ink from the fountain is automatically carried to said distributing roller, the latter being laterally reciprocated by means of a lever *V* that has a spanner-connection therewith, this lever being pivotally connected to one of the standards *G* and actuated by means of a cam *W* on a journal of said roller *D*, as clearly shown in Fig. 2. By the mechanism latterly described a regular feed in proper quantity and an even distribution of ink on the roller *K* are accomplished.

In practice, a galley of type is placed on the endless-carrier *E* against the guide rail *b* on the stand *A*, and the crank *F* being turned said galley is moved forward under the inking-roller *K* and between the rollers *L*, *C* the pressure of the roller *L* being determined by its vertical adjustment, as above described, while at the same time said roller *C* acts as a support against sag of said carrier at the printing point. The paper from the roll *J* is carried around back of the impression-

roller *L* and brought out under the delivery roller *M* or between the latter and said impression roller as may best suit the convenience of the operator. As the galley moves forward with the endless-carrier an impression is made upon the paper as the latter feeds from the roll *J*, this feed being proportionate to said movement of the galley and when the latter has been run out onto the forward end of the stand *A* the printed portion of the paper or proof is turned by the operator, against the adjacent upper or lower edge of the blade *N* to be thus cut off from the web.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a stand open at its top for a portion of its length intermediate of its extremities and provided with supports for a roll of paper, an endless carrier exposed through the opening on a level with the stand top, inking, impression and delivery rollers having their bearings on the stand above the carrier, a support for the upper portion of said carrier on a line parallel to the impression roller, a galley guide at the rear end of the stand and a paper-cutting blade extended across the forward end of said stand, substantially as set forth.

2. The combination of a stand open at the top for a portion of its length intermediate of its extremities, an endless carrier exposed through the opening on a level with the stand-top, inking and impression rollers having their bearings on the stand above the carrier, a support for the upper portion of said carrier on a line parallel to the impression roller, and a laterally adjustable guide-rail connected to said stand top at one side of the same in rear of the aforesaid carrier, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Racine, in the county of Racine and State of Wisconsin, in the presence of two witnesses.

CHARLES A. CORBITT.

Witnesses:

C. I. THROP,
W. EASSON.